

## CLAIMS

What is claimed is:

1           1.       A web-based generator testing and monitoring system, comprising:  
2                       monitoring logic operable monitor at least one AC output signal  
3 associated with an AC plant;  
4                       a web server coupled to the monitoring logic and to a network, the web  
5 server being operable to retrieve said at least one AC output signal, and to send a  
6 coded web page to display said at least one AC output signal to a user in a graphical  
7 format.

1           2.       The system of claim 1, wherein the monitoring logic is further operable  
2 to monitor at least one fuel signal associated with a fuel monitor coupled to the AC  
3 plant, and the web server is operable to retrieve said at least one fuel signal, and to  
4 send a coded web page to display said at least one fuel signal to the user in the  
5 graphical format.

1           3.       The system of claim 2, wherein the monitoring logic is further operable  
2 to monitor at least one DC output signal associated with a DC plant, and the web  
3 server is operable to retrieve said at least one DC output signal, and to send a coded  
4 web page to display said at least one DC output signal to the user in the graphical  
5 format.

1           4.       The system of claim 3, wherein the monitoring logic is coupled to the  
2 DC plant via a data gathering unit.

1           5.     The system of claim 4, wherein the coupling between the monitoring  
2 logic and the data gathering unit is a network.

1           6.     The system of claim 3, further comprising:  
2                 storage logic coupled to the web server, the storage logic being  
3 operable to store at least one AC boundary point associated with the AC plant, at least  
4 one fuel boundary point associated with the fuel monitor, and at least one DC  
5 boundary point associated with the DC plant, wherein each of said at least one AC,  
6 fuel, and DC boundary points are provided to the user via the web server.

1           7.     The method of claim 6, further comprising:  
2                 alarm logic coupled to the monitoring logic and the storage logic, the  
3 alarm logic being operable to compare said at least one AC output signal with said at  
4 least one AC boundary point, said at least one fuel signal with said at least one fuel  
5 boundary point, and said at least one DC output signal with said at least one DC  
6 boundary point, and notify the user via the web server responsive to any of the signals  
7 being outside of their respective boundary points.

1           8.     The system of claim 1, wherein the user accesses the information using  
2 a remote computer with a browser client via the network.

1           9.     The system of claim 1, further comprising:  
2                 test logic coupled to the web server, operable to provide the user with a  
3 remote interface to a house service panel at a site associated with the AC plant.

1           10.    The system of claim 9, wherein the web server is operable to receive  
2           an input from the user and instruct the test logic to simulate a commercial power  
3           failure at the house service panel responsive to the input from the user.

1           11.    The system of claim 10, wherein the house service panel is operable to  
2           turn on the AC plant, and switch from a commercial power source to a backup power  
3           source generated by the AC plant responsive to the commercial power failure.

1           12.    The system of claim 10, wherein the web server is operable to receive  
2           an engine stop request from the user and instruct the test logic to stop the AC plant.

1           13.     A method for web-based remote generator testing and monitoring, the  
2     method comprising the steps of:

3                     monitoring at least one AC output signal associated with an AC plant;  
4                     generating a graphically coded web page including said at least one  
5     AC output signal associated with the AC plant; and  
6                     sending the coded web page to a user via a first network.

1           14.     The method of claim 13, further comprising:  
2                     monitoring at least one fuel signal associated with a fuel monitor  
3     coupled to the AC plant; and  
4                     generating the graphically coded web page including said at least one  
5     fuel signal associated with the AC plant.

1           15.     The method of claim 14, further comprising:  
2                     monitoring at least one DC output signal associated with a DC plant;  
3     and  
4                     generating the graphically coded web page including said at least one  
5     DC signal associated with the DC plant.

1           16.     The method of claim 15, further comprising:  
2                     providing a data gathering unit to monitor the DC plant.

1           17.     The method of claim 16, further comprising:  
2                     providing a second network to communicate said at least one AC  
3     output signal, said at least one fuel signal, and said at least one DC output signal to  
4     the user.

1           18.     The method of claim 15, further comprising:  
2                     storing at least one AC boundary point associated with the AC plant, at  
3     least one fuel boundary point associated with the fuel monitor, and at least one DC  
4     boundary point associated with the DC plant; and  
5                     generating the graphically coded web page including each of said at  
6     least one AC, fuel, and DC boundary points.

1           19.     The method of claim 18, further comprising:  
2                     comparing said at least one AC output signal with said at least one AC  
3     boundary point, said at least one fuel signal with said at least one fuel boundary point,  
4     and said at least one DC output signal with said at least one DC boundary point; and  
5                     generating the graphically coded web page including an alarm  
6     responsive to any of the signals being outside of their respective boundary points.

1           20.     The method of claim 13, further comprising:  
2                     providing access to the information for a user having a remote  
3     computer with a browser client connected to the first network.

1           21.     The method of claim 13, further comprising:  
2                     providing a remote interface to the user to test logic which is operable  
3     to control a house service panel associated with the AC plant.

1           22.     The method of claim 21, further comprising:  
2                     receiving an input from the user requesting to simulate a commercial  
3     power failure; and  
4                     instructing the test logic to simulate the commercial power failure  
5     responsive to receiving the request from the user to simulate the commercial power  
6     failure.

1           23.     The method of claim 22, wherein the house service panel is operable to  
2     turn on the AC plant, and switch from a commercial power source to a backup power  
3     source generated by the AC plant responsive to the commercial power failure.

1           24.     The method of claim 22, further comprising:  
2                     receiving an engine stop request from the user; and  
3                     instructing the test logic to stop the AC plant.

1           25.     A computer readable medium having a program for web-based remote  
2 generator testing and monitoring, the program comprising the steps of:  
3                 monitoring at least one AC output signal associated with an AC plant;  
4                 generating a graphically coded web page including said at least one  
5 AC output signal associated with the AC plant; and  
6                 sending the coded web page to a user via a first network.

1           26.     The program of claim 25, further comprising:  
2                 monitoring at least one fuel signal associated with a fuel monitor  
3 coupled to the AC plant; and  
4                 generating the graphically coded web page including said at least one  
5 fuel signal associated with the AC plant.

1           27.     The program of claim 26, further comprising:  
2                 monitoring at least one DC output signal associated with a DC plant;  
3 and  
4                 generating the graphically coded web page including said at least one  
5 DC signal associated with the DC plant.

1           28.     The program of claim 27, further comprising:  
2                 providing a data gathering unit to monitor the DC plant.

1           29.    The program of claim 28, further comprising:  
2                    providing a second network to communicate said at least one AC  
3   output signal, said at least one fuel signal, and said at least one DC output signal to  
4   the user.

1           30.    The program of claim 25, further comprising:  
2                    storing at least one AC boundary point associated with the AC plant, at  
3   least one fuel boundary point associated with the fuel monitor, and at least one DC  
4   boundary point associated with the DC plant; and  
5                    generating the graphically coded web page including each of said at  
6   least one AC, fuel, and DC boundary points.

1           31.    The program of claim 30, further comprising:  
2                    comparing said at least one AC output signal with said at least one AC  
3   boundary point, said at least one fuel signal with said at least one fuel boundary point,  
4   and said at least one DC output signal with said at least one DC boundary point; and  
5                    generating the graphically coded web page including an alarm  
6   responsive to any of the signals being outside of their respective boundary points.

1           32.    The program of claim 25, further comprising:  
2                    providing access to the information for a user having a remote  
3   computer with a browser client connected to the first network.



1           33.     The program of claim 25, further comprising:  
2                     providing a remote interface to the user to test logic which is operable  
3     to control a house service panel associated with the AC plant.

1           34.     The program of claim 33, further comprising:  
2                     receiving an input from the user requesting to simulate a commercial  
3     power failure; and  
4                     instructing the test logic to simulate the commercial power failure  
5     responsive to receiving the request from the user to simulate the commercial power  
6     failure.

1           35.     The program of claim 34, wherein the house service panel is operable  
2     to turn on the AC plant, and switch from a commercial power source to a backup  
3     power source generated by the AC plant responsive to the commercial power failure.

1           36.     The method of claim 34, further comprising:  
2                     receiving an engine stop request from the user; and  
3                     instructing the test logic to stop the AC plant.